

136109



# PATENT SPECIFICATION (21) 10693/47

Class (52)

Int. Cl. (51) B65D 19/28

BEST-AVAILABLE COPY

Application Number (21) 10693/47.

Lodged (22) 17.3.47

Complete Specification  
entitled (54) Improvements in pallets for transporter  
trucks.

Lodged (23) 17.3.47

Accepted (44) Abandoned.

Published (41) 17.4.47.

Convention Priority (30) 8802 21.3.46 GB

Applicant (71) Forktrucks Pallets Limited.

Actual Inventor (72) Francis Mortimer Montgomery.

Related Art (56)

The following statement is a full description of this invention, including the best method of performing it known to us:

---

10693/47

10693/47

COMMONWEALTH OF AUSTRALIA

---

THE PATENTS ACT, 1903 - 1946

---

COMPLETE SPECIFICATION

"Improvements in pallets for transporter trucks"

WE, FORKTRUCKS PALLETES LIMITED, of Imperial House, Dominion Street, London, E.C.2, England, Material Handling Consultants, and FRANCIS MONTGOMERY, of the Company's address, Company Director, hereby declare this invention and the manner in which it is to be performed, to be fully described and ascertained in and by the following statement:-

By their solicitors, FRANCIS MONTGOMERY, of the Company's address, Company Director

THIS INVENTION relates to pallets for transporter trucks of the kind provided with two prongs or fingers mounted on a mast in such a way that the fingers are always outside the wheel base and may be raised and lowered upon the mast, the load always being carried cantilever fashion.

The goods or articles to be transported are stacked upon a pallet having openings into which the prongs or fingers may be entered for the purpose of raising and transporting the pallet and it is to these pallets that the present invention particularly relates.

The object of the present invention is to devise an improved construction of pallet which will result in a large saving of space when pallets are to be transported from one place to another prior to use while at the same time the pallets may be readily and rapidly assembled on the site at which they are to be put into use.

According to my invention I form my improved pallet from a plurality of basic metal sections comprising for each pallet two side members, one or two centre supports, and planks constituting the upper and lower decks respectively, and the number of which will vary with the dimensions of the assembled pallet.

Further features of the invention will be apparent from the description given hereafter.

The accompanying drawings illustrate one convenient form of pallet in accordance with the invention.

Figure 2 is a perspective view of a part of a pallet.

Figure 3 is a section on the line 3-3 of Figure 1, and

Figures 4 and 5 are slightly enlarged sectional views of two of the units employed.

In carrying my invention into effect in one convenient manner I form my improved basic pallet sections from light gauge steel, light alloy, or other suitable metal, and the sections may be fabricated by pressing, rolling, or other suitable means. For each pallet I provide two side members each formed as a channel member a, the upper and lower edges of which are again turned over to form smaller channels a' for the reception of the upper and lower deck members. Each pallet also comprises a centre support between the upper and lower deck sections, the centre support being formed as a single member, if desired, although preferably it is constituted by two truncated V-shaped channel members b<sup>1</sup> b<sup>2</sup> arranged back to back and the outer ends of which are flanged outwards as at b<sup>3</sup> so as to abut against the upper and lower deck members.

For the upper and lower decks respectively of each pallet I provide two end planks v (that is, four for each pallet), and one or more intermediate planks d, the number of which is variable and will be determined by one dimension of the finished pallet while the other dimension will be determined by the length of the end and intermediate planks c d. The

or sinuous formation in cross section as shown in Figures 3 and 5, one side edge being preferably flattened as at c' while the other side is rolled as at c<sup>2</sup> to enclose a wire or rod e (Figure 5), and the intermediate planks d may be similarly formed except that the number of corrugations may, if desired, be less and each side will be flattened as at d'.

The standard components may be assembled either by welding, riveting, bolting or similar means and it will be seen that a number of different sizes of pallet can be readily and rapidly constructed from common components although the components may be of different lengths determined by the ultimate dimensions required for the finished pallet. ✓

Some standard sizes of pallet are:-

	<u>Open end x side</u>		
Size No. 1	40"	x	32"
2	48"	x	40"
3	48"	x	48"
4	56"	x	48"
5	60"	x	40"
6	72"	x	48"
7	36"	x	36"
8	48"	x	30"
9	60"	x	60"

The shape of the components enables them to be conveniently nested one upon another and it will be readily appreciated that the components for a large number of pallets may be readily packed into a very small space so that in this way as much as 90 per cent. of packing space may be saved

with corresponding advantages both as regards manufacture and transport. At the same time the pallets may be readily and rapidly assembled on the site when required to be put into use.

It will of course be understood that the particular shapes of section above given are by way of example only and may be variously modified depending upon the nature of the use to which the pallets are to be put or any practical requirements that may have to be fulfilled.

Moreover I may, if desired, provide for each pallet more than one support intermediate of the side members.

1. A pallet for the purpose referred to formed from a plurality of basic metal sections comprising for each pallet two side members, one or two centre supports, and planks constituting the upper and lower decks respectively and the number of which will vary with the dimensions of the assembled pallet.

2. A pallet according to Claim 1 having four identical planks for the upper and lower decks.

3. A pallet according to Claim 1 or 2 in which the planks for upper and lower decks are of corrugated, zig-zag or sinuous form.

4. A pallet according to Claim 3 in which the end planks are flattened along one edge, and rolled along the other to take a wire or rod.

5. A pallet according to Claim 3 in which the intermediate planks are flattened along each edge.

6. A pallet according to Claim 1 in which the centre support is formed by two truncated V-shaped members arranged back to back.

7. A pallet according to Claim 1 in which the side members are formed as channels, the upper and lower edges of which are turned over to form smaller channels for the reception of the upper and lower deck members.

8. Improved pallets substantially as herein described and as illustrated by the accompanying drawings.

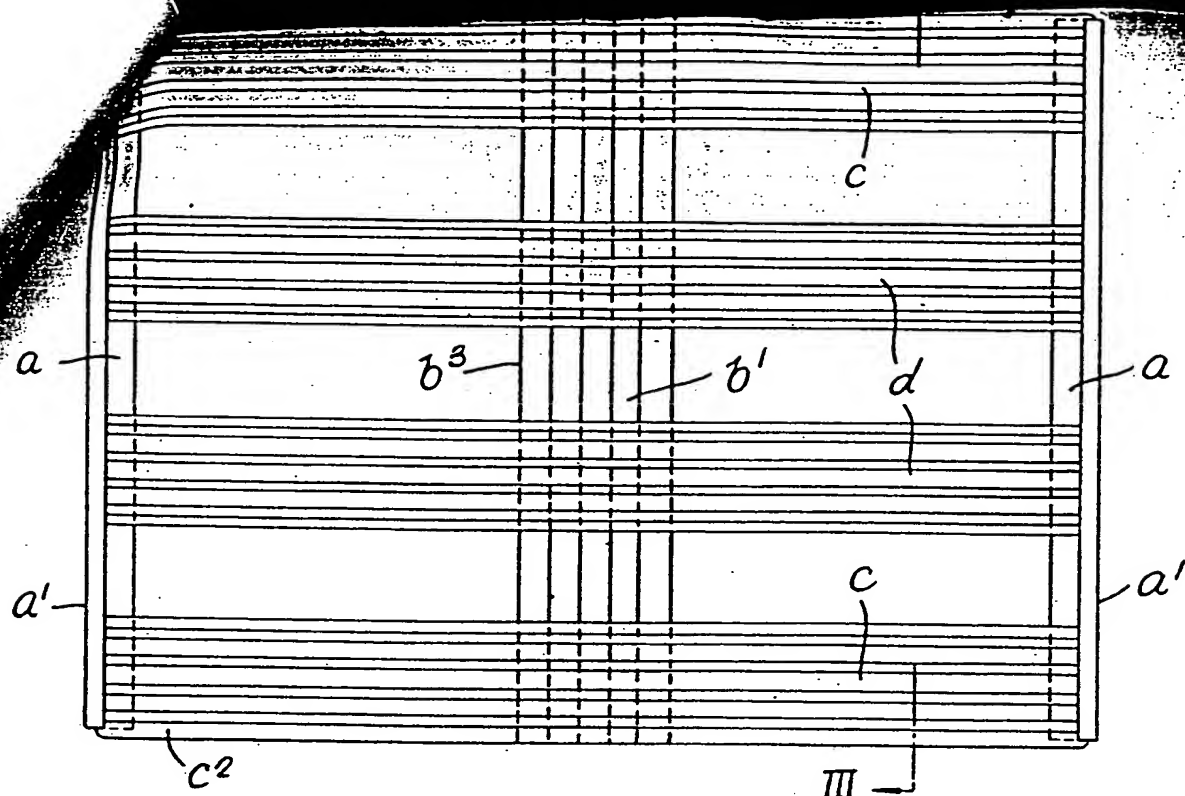


FIG. 2.

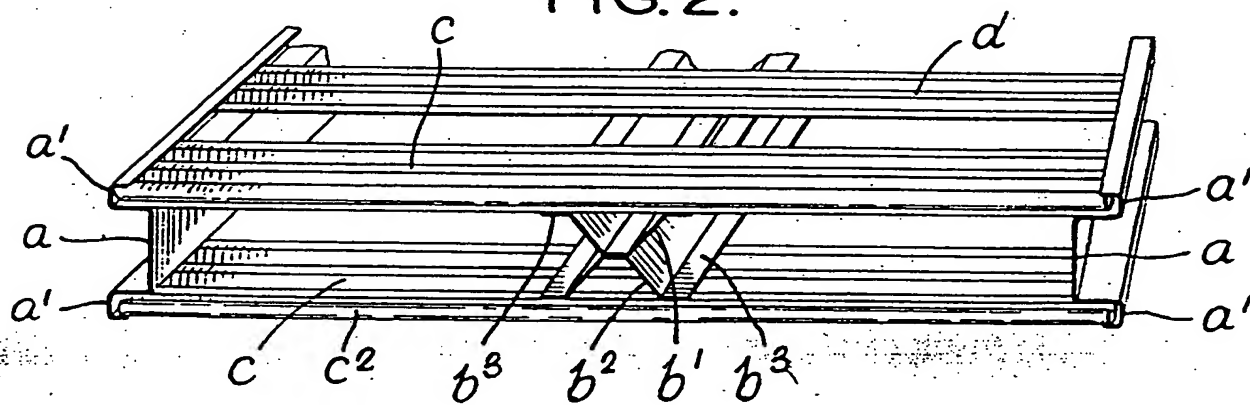


FIG. 3.

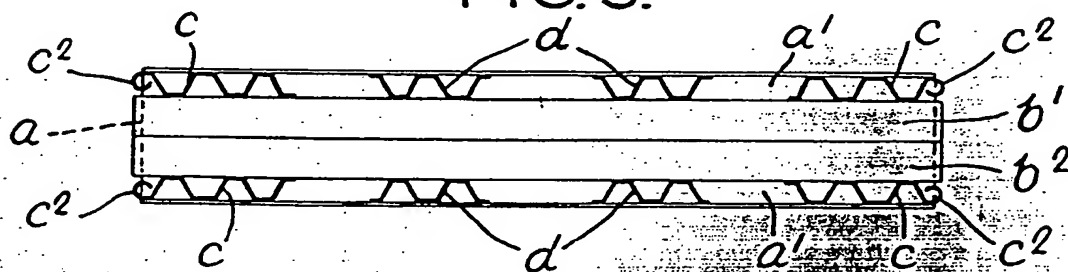


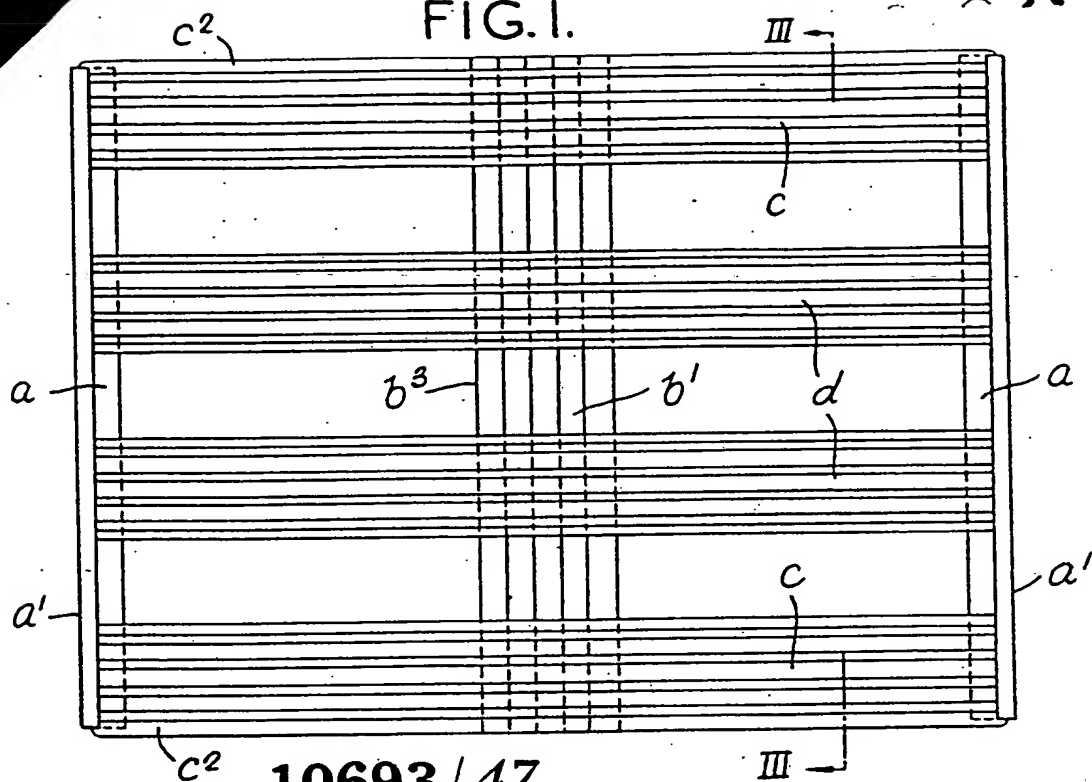
FIG. 4.

FIG. 5.





FIG. 1.



10693/47

FIG. 2.

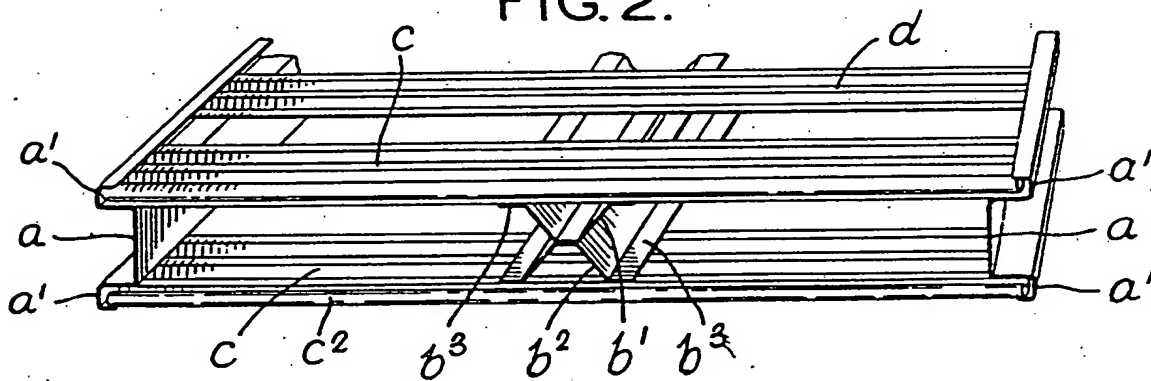


FIG. 3.

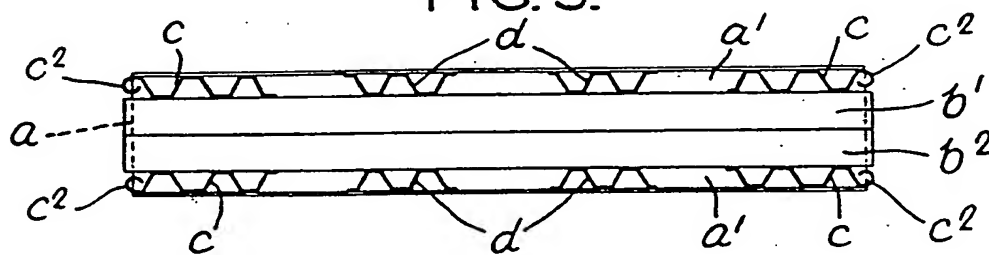
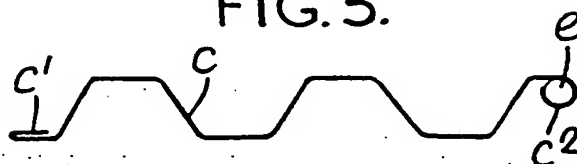


FIG. 4.



FIG. 5.



This Page is inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☒ BLACK BORDERS
- ☒ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☐ BLURED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☒ COLORED OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REPERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images  
problems checked, please do not report the  
problems to the IFW Image Problem Mailbox**